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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |   | ATTORNEY'S DOCKET NUMBER<br>KHEM (Emp. #)<br>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><div style="font-size: 2em; font-weight: bold; text-align: center;">10/533216</div> |
| INTERNATIONAL APPLICATION NO.<br>PCT/RU2003/000503  | INTERNATIONAL FILING DATE<br>19 November 2003 | PRIORITY DATE CLAIMED<br>21 November 2002   |
| TITLE OF INVENTION<br>METHOD FOR CONVERTING HEAT ENERGY INTO USEFUL WORK  |   |   |
| APPLICANT(S) FOR DO/EO/US<br>UMAROV, Georgy Ramasanovich; BOYCHENKO Sergey Ivanovich; PETUKHOV, Valery Mikhaylovich   |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |   |   |
| 1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.  |   |   |
| 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.   |   |   |
| 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.   |   |   |
| 4. <input checked="" type="checkbox"/> The US has been elected (Article 31).  |   |   |
| 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). courtesy copy only</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul>  |   |   |
| 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul>  |   |   |
| 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ul> |   |   |
| 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).   |   |   |
| 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).   |   |   |
| 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).   |   |   |
| <b>Items 11 to 20 below concern document(s) or information included:</b>  |   |   |
| 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.   |   |   |
| 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.  |   |   |
| 13. <input type="checkbox"/> A preliminary amendment.   |   |   |
| 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.  |   |   |
| 15. <input type="checkbox"/> A substitute specification.  |   |   |
| 16. <input type="checkbox"/> A power of attorney and/or change of address letter.   |   |   |
| 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.  |   |   |
| 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).  |   |   |
| 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).  |   |   |
| 20. <input checked="" type="checkbox"/> Other items or information: postcard; check; Express Mail certificate   |   |   |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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| U.S. APPLICATION NO. (if known, see R 1.5)<br><div style="font-size: 2em; font-weight: bold; margin-top: 5px;">10/533216</div>   |              | INTERNATIONAL APPLICATION NO.<br>PCT/RU2003/000503                            |         | ATTORNEY'S DOCKET NUMBER<br>KHEMKA1 (temp #) |                     |
| The following fees have been submitted   |              |   |         | CALCULATIONS                                 | PTO USE ONLY        |
| 21. <input checked="" type="checkbox"/> Basic national fee..... \$300  |              |   |         | \$ 300                                       |                     |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100<br>All other situations..... \$200  |              |   |         | \$ 200                                       |                     |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100<br>International Search Report prepared and provided to the Office..... \$400<br>All other situations..... \$500  |              |   |         | \$ 500                                       |                     |
| <b>TOTAL OF 21, 22 and 23 =</b>  |              |   |         | \$ 1,000                                     |                     |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  |              |   |         |  |                     |
| Total Sheets   | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE    |  |                     |
| - 100 =  | /50 =        |   | x \$250 | \$   |                     |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).   |              |   |         | \$   |                     |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA  | RATE    | \$   |                     |
| Total claims   | 3 - 20 =     |   | x \$ 50 | \$   |                     |
| Independent claims   | 1 - 3 =      |   | x \$200 | \$   |                     |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |   | + \$360 | \$   |                     |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |         | \$ 1,000                                     |                     |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  |              |   |         |  |                     |
| <b>SUBTOTAL =</b>  |              |   |         | \$ 500                                       |                     |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  |              |   |         | \$   |                     |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |         | \$ 500                                       |                     |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |   |         | \$   |                     |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |         | \$ 500                                       |                     |
|  |              |   |         | Amount to be refunded:                       | \$ any overpayments |
|  |              |   |         | Amount to be charged:                        | \$ any deficiencies |
| a. <input checked="" type="checkbox"/> A check in the amount of \$ 500 to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.<br>A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 13-0480. A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. |              |   |         |  |                     |
| <b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.  |              |   |         |  |                     |
| SEND ALL CORRESPONDENCE TO:<br>William D. McSpadden<br>Baker & McKenzie<br>2001 Ross Ave., Suite 2300<br>Dallas, Texas 75201   |              |   |         |  |                     |
| <div style="font-family: cursive; font-size: 1.2em; margin-bottom: 5px;">William D. McSpadden</div> SIGNATURE<br>William D. McSpadden<br>NAME<br>44,234<br>REGISTRATION NUMBER   |              |   |         |  |                     |

10/533216

JC14 d PCT/PTO 23 MAY 2005

Express Mail Number EL 964188095 US

**EXPRESS MAIL CERTIFICATE 37 CFR 1.10**

**May 23, 2005**

I hereby certify that the papers enclosed herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and addressed to Attn: MS PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

- 1) Postcard Acknowledgement;
- 2) Express Mail Certificate;
- 3) Transmittal Letter to the US Designated/Elected Office Concerning a Submission Under 35 U.S.C. 371;
- 4) International Publication No. WO 2004/046546 A1;
- 5) English language translation of the International Application as filed;
- 6) Executed Declaration
- 7) Information Disclosure Statement;
- 8) Application Data Sheet;
- 9) \$500 Check

  
Scarlett Pereida

May 23, 2005  
Date of Signature